

# ARIZONA SOLAR ONE LLC

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## Solana Generating Facility

2012 NOV 30 P 2: 16

November 30, 2012

Docket Control  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, Arizona 85007

ARIZONA CORPORATION COMMISSION  
DOCKET CONTROL

Compliance Section  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, Arizona 85007

Re: Docket No. L00000GG-08-0407-00139, Decision No. 70638  
Docket No. L00000GG-08-0408-00140, Decision No. 70639

This letter is to inform you of the compliance actions taken for the Solana Generating Station Facility CEC Condition No. 20 (Decision No. 70638), as well as the Solana Generating Station Transmission Line CEC Condition No. 17 (Decision No. 70639) which state:

"The Applicant, or its assignee(s), shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met... Copies of each letter along with the corresponding documentation shall be submitted to the Arizona Attorney General and Department of Commerce Energy Office."

Arizona Solar One LLC has completed the compliance activities, evidence of which may be found in the attached documentation.

Sincerely,

Emiliano Garcia Sanz  
Solana – General Director  
Arizona Solar One LLC

Arizona Corporation Commission  
**DOCKETED**  
NOV 30 2012





**ABENGOA SOLAR**  
Arizona Solar One LLC  
4505 E. Chandler Blvd Suite 120  
Phoenix, AZ 85048

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Tom Horne  
Arizona Attorney General  
1275 W. Washinton St.  
Phoenix, AZ 85007



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| PS Form 3800, August 2006   |         | See Reverse for Instructions                          |

Leisa Brug  
Governor's Office of Energy Policy  
1700 W. Washington St. Suite 220  
Phoenix, AZ 85007



# **ARIZONA SOLAR ONE**

**Self-Certification  
Docket No. L00000GG-08-0407-00139,  
Decision No. 70638**



1 **BEFORE THE ARIZONA POWER PLANT AND**  
2 **TRANSMISSION LINE SITING COMMITTEE**

3 IN THE MATTER OF THE APPLICATION )  
4 OF ARIZONA SOLAR ONE, LLC., IN ) Docket No. L-00000GG-08-0407-00139  
5 CONFORMANCE WITH THE )  
6 REQUIREMENTS OF ARIZONA REVISED )  
7 STATUTES §§ 40-360, *et seq.*, FOR A ) Case No. 139  
8 CERTIFICATE OF ENVIRONMENTAL )  
9 COMPATIBILITY AUTHORIZING THE )  
CONSTRUCTION OF THE SOLANA )  
GENERATING STATION, LOCATED IN )  
SECTION 9, TOWNSHIP 6 SOUTH, RANGE )  
7 WEST, MARICOPA COUNTY, ARIZONA. )  
\_\_\_\_\_ )

10  
11 **CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

12 Pursuant to notice given as provided by law, the Arizona Power Plant and  
13 Transmission Line Siting Committee (the "Committee") held public hearings on  
14 September 22 and 23, 2008 and October 14, 2008, in conformance with the requirements  
15 of Arizona Revised Statutes ("A.R.S.") §§ 40-360, *et seq.*, for the purpose of receiving  
16 evidence and deliberating on the Application of Arizona Solar One, LLC. ("Applicant") for a  
17 Certificate of Environmental Compatibility ("Certificate") in the above-captioned case (the  
18 "Project").

19 The following members and designees of members of the Committee were present  
20 at one or more of the hearings for the evidentiary presentations and/or for the deliberations:

|                   |  |
|-------------------|--|
| 21 John Foreman   | Chairman, Designee for Arizona Attorney General    |
| 22                | Terry Goddard                                      |
| 23 Paul Rasmussen | Designee for Director, Arizona Department of       |
|                   | Environmental Quality                              |
| 24 Gregg Houtz    | Designee for Director, Arizona Department of Water |
| 25                | Resources  |
| 26                |  |



|    |                    |   |
|----|--------------------|---|
| 1  | Jack Haenichen     | Designee for Director, Energy Office, Arizona   |
| 2  |                    | Department of Commerce, attended September 22   |
| 3  |                    | and 23, 2008                                    |
| 4  | Jim Arwood         | Director, Energy Office, Arizona Department of  |
| 5  |                    | Commerce, attended October 14, 2008             |
| 6  | David Eberhart     | Designee for Chairman, Arizona Corporation      |
| 7  |                    | Commission                                      |
| 8  | Michael Biesemeyer | Appointed Member, attended September 22 and 23, |
| 9  |                    | 2008  |
| 10 | Jeff McGuire       | Appointed Member                                |
| 11 | Patricia Noland    | Appointed Member                                |
| 12 | Michael Palmer     | Appointed Member                                |
| 13 | Michael Whalen     | Appointed Member                                |
| 14 | Barry Wong         | Appointed Member                                |

15 Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and  
16 Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented  
17 by Charles H. Hains and Robin R. Mitchell, the Sierra Club-Grand Canyon Chapter,  
18 represented by Timothy M. Hogan, and the Paloma Irrigation and Drainage District ("PIDD"),  
19 represented by Jay Moyes and Jeffrey Zimmerman, were granted intervention pursuant to  
20 A.R.S. § 40-360.05.

21 At the conclusion of the hearings, the Committee, having received the Application,  
22 the appearances of the parties, the evidence, testimony, and exhibits presented at the  
23 hearings, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13,  
24 upon motion duly made and seconded, voted 10 to 0 to grant Applicant this Certificate of  
25 Environmental Compatibility (Line Siting Case No. 139) for the Project.

26 The Project as approved consists of a 280 Megawatt ("MW") gross output (250 MW  
nominal output) concentrating solar power ("CSP") electric generating plant located on an



1 approximately 3000-acre site west of the Town of Gila Bend, in Maricopa County, Arizona.  
2 A general location map of the Project is set forth in **Exhibit A**.

### 3 4 CONDITIONS

5 This Certificate is granted upon the following conditions:

- 6 1. The Applicant, or its assignee(s), shall obtain all required approvals and permits  
7 necessary to construct the Project.

8 Status- the Applicant is in the process of acquiring all necessary approvals and  
9 permits.

- 10 2. The Applicant, or its assignee(s), shall comply with all existing applicable  
11 ordinances, master plans and regulations of the State of Arizona, the County of  
12 Maricopa, the United States, and any other governmental entities having  
13 jurisdiction, including but not limited to the following:

- 14 (a) all applicable land use regulations;

15 Status- On December 17, 2008, Arizona Solar One, LLC received approval  
16 by the County of Maricopa to allow for the Industrial Use with a  
17 Comprehensive Plan Amendment for the proposed Solana Site.  
18 On July 7, 2010, Arizona Solar One, LLC received a Special Use Permit  
19 (SUP) approved by the Maricopa County Board of Supervisors.

- 20 (b) all applicable zoning stipulations and conditions, including but not limited  
21 to landscaping and dust control requirements;

22 Status- These requirements have been articulated within the SUP, and the  
23 Applicant shall comply with all such stipulations. As well, on September  
24 29, 2010, Maricopa County Air Quality Department has issued a Dust  
25 Control Permit for the Solana Site, which has been renewed on November  
26 01, 2012 .



1 (c) all applicable water use, discharge and/or disposal requirements of the  
2 Arizona Department of Water Resources and the Arizona Department of  
3 Environmental Quality;

4 Status- These requirements have been addressed in the Aquifer Protection  
5 Permit for Arizona Solar One Solar LLC, which has been approved on July  
6 27, 2012.

7 (d) all applicable noise control standards;

8 Status- The Applicant shall comply with all Maricopa County ordinances  
9 applicable to this condition.

10 (e) all applicable regulations and permits governing storage and handling of  
11 chemicals and petroleum products;

12 Status- The Applicant shall comply with all Arizona Department of  
13 Environmental Quality and EPA requirements for material handling.

14 (f) all other applicable federal and state regulations and standards.

15 Status- The U.S. Department of Energy (DOE) conducted an Environmental  
16 Assessment (EA) that analyzed the potential environmental impacts  
17 associated with the Solana Generating Plant. The DOE issued a Finding of  
18 No Significant Impact on May 6, 2010.

19 On June 17, 2010 Arizona Solar One, LLC was issued an Air Quality Permit  
20 by the Maricopa County Air Quality Department, and renewed on  
21 September 04, 2012.

22 3. On July 27, 2012 Arizona Solar One LLC was issued an Aquifer Protection  
23 Permit. This authorization to construct the Project will expire ten (10) years from  
24 the date the Certificate is approved by the Commission unless the Project is  
25 completed and capable of operation within the ten-year time frame. If the Project  
26 is not complete and capable of operation within the ten-year time frame, the



1 Applicant or its assignee(s) may request that the Commission extend this time  
2 limitation.

- 3 4. In the event that the Project requires an extension of the term of this Certificate  
4 prior to completion of construction, Applicant, or its assignee(s), shall use  
5 commercially reasonable means to directly notify all landowners and residents  
6 within one mile of the Project site for which the extension is sought. Such  
7 landowners and residents shall be notified of the time and place of the  
8 proceeding in which the Commission shall consider such request for extension.

9 Status-The Applicant shall comply with the above notification requirements.

- 10 5. Applicant, or its assignee(s) and/or its customer, will work in good faith to  
11 develop and implement an educational program to teach students about the  
12 science of solar electric technology.

13 Status- The Applicant will collaborate with appropriate educational institutions to  
14 develop and implement an effective educational outreach program.

- 15 6. The Applicant, or its assignee(s), will provide to the Commission Staff copies of  
16 the Project's executed interconnection agreement with APS, and the technical  
17 operating studies that will be performed prior to actual physical interconnection  
18 of the Project to the APS transmission system. -LGIA to staff

19 Status- The Applicant finalized the interconnection agreement with APS, and  
20 provided copies of the agreement to Staff on November 23, 2010.

- 21 7. Applicant, or its assignee(s), or its affiliate company, or its customer will become a  
22 member of the Western Electricity Coordinating Council ("WECC") (or its  
23 successor), and will file with the Commission Docket Control a copy of its  
24 executed WECC Membership Agreement.

25 Status- According to WECC and NERC regulations and standards the Applicant  
26 submitted to WECC on August 03, 2012 the application to register "ASI



Operations” as a Transmission Owner. The application is still under review. On the other hand, the Applicant will submit another application to register as Generator Owner / Generator Operator when operation of the Solana generating station is near completion.

8. Applicant, or its assignee(s) and/or its affiliate company and/or its customer, will participate in good faith in Commission-sponsored workshops and assessments of the solar renewable infrastructure and market.

Status- The Applicant shall comply.

9. Applicant, or its assignee(s), may utilize groundwater for electrical generation and related uses associated with construction and commercial operation of the Project. Prior to the commencement of commercial operation, Applicant, or its assignee(s) will file with Commission Docket Control a letter confirming that Applicant, or its assignee(s) has secured both an adequate supply of water to produce 280 MW using CSP parabolic trough technology with thermal storage, and a legal right to use the water needed for the purpose of construction and commercial operation of the Project.

Status- The Applicant has signed an agreement with Paloma Irrigation and Drainage District as evidenced by the “Memorandum of Industrial Development Facilitation Agreement”, recorded with ACC Docket control on November 23, 2010. The agreement allows the project a legal right to use the water needed during construction and operations.

10. To the extent applicable, Applicant or its assignee(s), will comply with the notice and salvage requirements of the Arizona Native Plant Law (A.R.S. §§ 3-901, *et seq.*) and will, to the extent feasible, minimize the destruction of native plants during Project construction.

1        **Status-** On August 9, 2010 the Applicant filed a "Notice of Intent to Clear Land"  
2        with the Arizona Department of Agriculture (ADA). This notice was approved by  
3        the ADA on August 18, 2010.

- 4        11. During the construction and maintenance of the Project, to the extent applicable,  
5        the Applicant, or its assignee(s), will use existing roads for access, and to the  
6        extent applicable, taking into the account that the Project Site lies within a  
7        cultivated agricultural area, minimize impacts to wildlife and vegetation on the  
8        Project Site.

9        **Status-** The Applicant shall comply.

- 10       12. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical  
11       site or object that is at least fifty years old is discovered on state, county or  
12       municipal land during Project-related activities, the person in charge shall  
13       promptly report the discovery to the Director of the Arizona State Museum, and  
14       in consultation with the Director, shall immediately take all reasonable steps to  
15       secure and maintain the preservation of the discovery. If human remains and/or  
16       funerary objects are encountered on private land during the course of any  
17       ground-disturbing activities relating to the development of the subject property,  
18       Applicant shall cease work on the affected area of the Project and notify the  
19       Director of the Arizona State Museum pursuant to A.R.S. § 41-865.

20       **Status-** The Applicant shall comply.

- 21       13. Within 120 days of the Commission decision granting this Certificate, Applicant,  
22       or its assignee(s), will erect and maintain at the site a sign of not less than 4 feet  
23       by 8 feet dimensions, advising:

- 24           (a) That the site has been approved for the construction of a 280 MW  
25           generating facility;  
26           (b) The expected date of completion of the Project;



1 (c) A phone number for public information regarding the Project;

2 (d) The name of the Project;

3 (e) The name of the Applicant, or its assignee(s); and

4 (f) The website of the Applicant, or its assignee(s).

5 Status-On April 6, 2009 Arizona Solar One LLC completed this action. The action  
6 was then filed with the offices of Compliance Control and Docket Control on  
7 April 10, 2009.

8 14. In connection with the construction of the Project, Applicant, or its assignee(s),  
9 shall use commercially reasonable efforts, where feasible, to give due  
10 consideration to use of qualified Arizona contractors.

11 Status- The Applicant is currently, and will continue to give such consideration to  
12 Arizona contractors in its ongoing vendor selection process.

13 15. The Applicant, or its assignee(s), shall provide copies of this Certificate to the  
14 Maricopa County Planning and Development Department, the Arizona State Land  
15 Department, the State Historic Preservation Office, and the Arizona Game and  
16 Fish Department.

17 Status- Arizona Solar One completed this action on November 13, 2009. This  
18 action was then filed with the offices of Compliance Control and Docket Control  
19 on November 19, 2009.

20 16. Within 120 days after the approval of this Certificate by the Commission,  
21 Applicant, or its assignee(s), will provide known homebuilders and developers  
22 within one mile of the Project (i) a copy of this Certificate, (ii) a map showing the  
23 location of the Project, (iii) a pictorial depiction of the type of power plant being  
24 constructed, and (iv) a written request that the developers and homebuilders  
25  
26

1 include this information in the developers' and homebuilders' homeowners'  
2 disclosure statements.

3 Status-Arizona Solar one completed this action in conjunction with item thirteen  
4 (13), on April 6, 2009, providing the two know homebuilders and developers in  
5 the area with the required attachments. This action was then filed with the  
6 offices of Compliance control and Docket control on April 10, 2009.

7 17. The Applicant, or its assignee(s), shall file with Commission Docket Control,  
8 confirmation of the completion of system upgrades required under the  
9 interconnection agreement at least thirty days before commercial operation of  
10 the plant and associated transmission lines.

11 Status- The Applicant shall comply.

12 18. The Applicant will comply with all applicable Western Electricity Coordinating  
13 Council/North American Electric Reliability Corporation standards, without the  
14 implementation of an automated Remedial Action Scheme to mitigate N-1  
15 contingencies other than the loss of the Gen-Tie line.

16 Status- The Applicant started to comply with the Western Electricity Coordinating  
17 Council/North American Electric Reliability Corporation standards by submitting to  
18 WECC on August 03, 2012 the application to register "ASI Operations" as a  
19 Transmission Owner. The Applicant shall submit another application to register  
20 Arizona Solar One LLC as Generator Owner / Generator Operator when operation  
21 of the Solana generating station is near completion. .

22 19. The Applicant, or its assignee(s), shall file with Commission Docket Control the  
23 final APS System Impact Study, to include the Short Circuit Study, within 10 days  
24 of receipt by the Applicant or its assignee(s).  
25  
26



**Status-** This Action was completed by Arizona Solar One on July 2, 2009 and docketed with the offices of Compliance Control and Docket Control on July 2, 2009.

20. The Applicant, or its assignee(s), shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met. Each letter shall be submitted to the Commission Docket Control on December 1, beginning in 2009. Attached to each certification letter shall be documentation explaining how compliance with each condition was achieved. Copies of each letter along with the corresponding documentation shall be submitted to the Arizona Attorney General and Department of Commerce Energy Office. The requirement for the self-certification shall expire on the date the Project is placed into operation.

**Status-** This Action was completed by the Applicant on December 01, 2011, and submitted to Docket Control, the Arizona Attorney General and Department of Commerce Energy Office.

21. The Applicant or its assignees shall submit by March 31, on an annual basis, a report to the Commission Docket Control and the Arizona Department of Water Resources that *identifies the amount of water used for this Project in the previous calendar year.*

**Status**-This action was completed by Arizona Solar One on March 26, 2012 and filed with the offices of Compliance Control and Docket Control on March 27, 2012.

## **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

This Certificate incorporates the following findings of fact and conclusions of law:

1. The Solana generating facility will use CSP technology.

- 1 2. CSP technology uses solar thermal energy as a fuel source to produce power with  
2 a conventional steam power plant.
- 3 3. The major components of the Solana project will be a solar field, a power block, a  
4 thermal energy storage system and a heat transfer fluid system.
- 5 4. The solar field will consist of approximately 2,700 to 3,000 parabolic trough  
6 collectors containing approximately 900,000 mirrors.
- 7 5. The power block will contain two 140 MW steam turbines.
- 8 6. The thermal energy storage system will use molten salt storage that will allow  
9 solar power to be dispatched in accordance with peak electricity demand profiles,  
10 and during cloudy or post-sunset periods.
- 11 7. The heat transfer fluid system moves the thermal energy collected in the solar  
12 field to the power block and the thermal energy storage system.
- 13 8. Solana will be a water cooled plant that will use approximately 3,000 acre feet  
14 per year within PIDD, which is substantially less than the approximately 27,500  
15 acre feet per year that has been historically delivered by PIDD and used on this  
16 site for agriculture.
- 17 9. Utility-scale parabolic trough technology has successfully performed since 1984  
18 when the first of nine trough plants were built in California's Mohave Desert.
- 19 10. The addition of Solana's clean energy production will offset the need for fossil-  
20 fueled generation that would otherwise produce approximately 475,000 tons per  
21 year of greenhouse gas emissions.
- 22 11. The Project is in the public interest because it aids the state in meeting the need  
23 for an adequate, economical and reliable supply of electric power.
- 24  
25  
26



1 12. In balancing the need for the Project with its effect on the environment and  
2 ecology of the state, the conditions placed on the Certificate by the Committee  
3 effectively minimize its impact on the environment and ecology of the state.

4 13. The conditions placed on the Certificate by the Committee resolve matters  
5 concerning the need for the Project and its impact on the environment and  
6 ecology of the state raised during the course of proceedings, and as such, serve  
7 as the findings on the matters raised.  
8

9 14. In light of these conditions, the balancing in the broad public interest results in  
10 favor of granting the Certificate.

11 THE ARIZONA POWER PLANT AND  
12 TRANSMISSION LINE SITING COMMITTEE

13  
14 \_\_\_\_\_  
Hon. John Foreman, Chairman  
15  
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26

# **ARIZONA SOLAR ONE**

**Self-Certification**

**Docket No. L00000GG-08-0408-00140,  
Decision No. 70639**



1 **BEFORE THE ARIZONA POWER PLANT AND**  
2 **TRANSMISSION LINE SITING COMMITTEE**

3 IN THE MATTER OF THE APPLICATION )  
4 OF ARIZONA SOLAR ONE, LLC., IN ) Docket No. L-00000GG-08-0408-00140  
5 CONFORMANCE WITH THE )  
6 REQUIREMENTS OF ARIZONA REVISED )  
7 STATUTES §§ 40-360, *et seq.*, FOR A ) Case No. 140  
8 CERTIFICATE OF ENVIRONMENTAL )  
9 COMPATIBILITY AUTHORIZING THE )  
10 CONSTRUCTION OF THE SOLANA GEN- )  
11 TIE, WHICH ORIGINATES AT THE )  
12 SOLANA GENERATING STATION, )  
LOCATED IN SECTION 9, TOWNSHIP 6 )  
SOUTH, RANGE 7 WEST, MARICOPA )  
COUNTY, AND TERMINATES AT THE )  
PANDA 230 kV SUBSTATION, LOCATED )  
IN SECTION 20, TOWNSHIP 5 SOUTH, )  
RANGE 4 WEST, GILA BEND, ARIZONA. )  
\_\_\_\_\_ )

13  
14 **CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

15 Pursuant to notice given as provided by law, the Arizona Power Plant and  
16 Transmission Line Siting Committee (the "Committee") held public hearings on  
17 September 22 and 23, 2008, and October 14, 2008, all in conformance with the  
18 requirements of Arizona Revised Statutes ("A.R.S.") §§ 40-360, *et seq.*, for the purpose of  
19 receiving evidence and deliberating on the Application of Arizona Solar One, LLC.  
20 ("Applicant") for a Certificate of Environmental Compatibility ("Certificate") in the above-  
21 captioned case (the "Project").

22 The following members and designees of members of the Committee were present  
23 at one or more of the hearings for the evidentiary presentations and/or for the deliberations:

24 John Foreman Chairman, Designee for Arizona Attorney General  
25 Terry Goddard

26 Paul Rasmussen Designee for Director, Arizona Department of  
Environmental Quality

|    |                    |  |
|----|--------------------|--|
| 1  | Gregg Houtz        | Designee for Director, Arizona Department of Water Resources   |
| 2  |                    |  |
| 3  | Jack Haenichen     | Designee for Director, Energy Office, Arizona Department of Commerce, attended September 22 and 23, 2008 |
| 4  |                    |  |
| 5  | Jim Arwood         | Director, Energy Office, Arizona Department of Commerce, attended October 14, 2008                       |
| 6  |                    |  |
| 7  | David Eberhart     | Designee for Chairman, Arizona Corporation Commission  |
| 8  | Michael Biesemeyer | Appointed Member, attended September 22 and 23, 2008   |
| 9  |                    |  |
| 10 | Jeff McGuire       | Appointed Member   |
| 11 | Patricia Noland    | Appointed Member   |
| 12 | Michael Palmer     | Appointed Member   |
| 13 | Michael Whalen     | Appointed Member   |
| 14 | Barry Wong         | Appointed Member   |

15           Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and  
16 Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented  
17 by Charles H. Hains and Robin R. Mitchell, the Sierra Club-Grand Canyon Chapter,  
18 represented by Timothy M. Hogan, and the Paloma Irrigation and Drainage District,  
19 represented by Jay Moyes and Jeffrey Zimmerman, were granted intervention pursuant to  
20 A.R.S. § 40-360.05.

21           At the conclusion of the hearings, the Committee, having received the Application,  
22 the appearances of the parties, the evidence, testimony, and exhibits presented at the  
23 hearings, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13,  
24 upon motion duly made and seconded, voted 10 to 0 to grant Applicant this Certificate of  
25 Environmental Compatibility (Line Siting Case No. 140) for the Project.  
26

1 The Project as approved consists of approximately 20 miles of 230 kV transmission  
2 line and required substation and switchyard facilities and modifications. The single-circuit  
3 may be constructed on either single-circuit or double-circuit towers.

4 The Project will originate at a new 230 kV substation within the Solana Generating  
5 Station site (Line Siting Case No. 139, proceeding concurrently with this case), Maricopa  
6 County, Arizona. From the new substation within the Solana site, the Project will head to  
7 the intersection of Painted Rock Dam Road and Powerline Road. The Project will end at the  
8 existing APS Panda Substation (Line Siting Case No. 99) located in Section 20, Township 5  
9 South, Range 4 West, Gila Bend, Arizona. The Project may interconnect with (loop in and  
10 out of) the APS Gila Bend Substation in addition to terminating at the existing APS Panda  
11 230 kV Substation. From the intersection of Painted Rock Dam Road and Powerline Road,  
12 the Project's route will be as follows:

- 13 • North for approximately two miles to the section line / Watermelon Road alignment,  
14 within a 500-foot wide corridor. The corridor width includes 250 feet east and 250  
15 feet west of the centerline of the section line / Painted Rock Dam Road / 419<sup>th</sup>  
16 Avenue alignment.
- 17 • At the section line located two miles north of Powerline Road, the route turns east  
18 along the section line / Watermelon Road alignment for approximately sixteen miles  
19 to the existing APS Panda 230 kV Substation, located in Section 20, Township 5  
20 South, Range 4 West, Gila Bend, Arizona. Between 419<sup>th</sup> Avenue and 355<sup>th</sup> Avenue  
21 the corridor width is 2,000 feet; 1,000 feet north and 1,000 feet south of the  
22 centerline of section line / Waterline Road alignment. From 355<sup>th</sup> Avenue to the  
23 midsection line between 331<sup>st</sup> Avenue and 323<sup>rd</sup> Avenue, the corridor width is 1,000  
24 feet, located south of the centerline of the section line / Watermelon Road  
25 alignment. From the midsection line between 331<sup>st</sup> Avenue and 323<sup>rd</sup> Avenue to the  
26 east side of the existing APS Panda 230 kV Substation, the corridor width is 1,250



1 feet, located south of the centerline of the section line / Watermelon Road  
2 alignment.

- 3 • At the point along the section line / Watermelon Road alignment located parallel to  
4 the eastern boundary of the existing APS Panda 230 kV Substation, the route extends  
5 1,000 feet north of Watermelon Road, within a 500-foot wide corridor east of the  
6 existing APS Panda 230 kV Substation.

7 For the authorized, but not required, loop in and out of the Gila Bend Substation, the  
8 Project's route also includes the following corridor:

- 9 • A 1,000-foot wide corridor, approximately two miles long, located between  
10 Watermelon Road and the APS Gila Bend Substation, primarily along the alignment  
11 of the existing APS 230 kV Gila Bend transmission line (Line Siting Case No. 26). The  
12 corridor width includes 500 feet east and 500 feet west of the centerline of the  
13 existing alignment. Within this corridor, the portion of the circuit extending south  
14 from Watermelon Road to the APS Gila Bend Substation and the portion extending  
15 north from the APS Gila Bend Substation to Watermelon Road may be placed on two  
16 sets of single-circuit towers or on one set of double-circuit towers.

17 A general location map of the Project, described herein, is set forth in **Exhibit A.**

### 18 **CONDITIONS**

19 This Certificate is granted upon the following conditions:

- 20 1. The Applicant, or its assignee(s), shall obtain all required approvals and permits  
21 necessary to construct the Project.

22 Status: All required permits and authorizations from Federal and State agencies  
23 were acquired prior and during the construction of the Solana Gen – Tie.

- 24 2. The Applicant, or its assignee(s), shall comply with all existing applicable  
25 ordinances, master plans and regulations of the Town of Gila Bend, State of  
26

1 Arizona, the County of Maricopa, the United States, and any other governmental  
2 entities having jurisdiction.

3 Status: The Applicant, prior and during construction of the Solana Gen – Tie,  
4 complied with all existing applicable ordinances, master plans and regulations of  
5 the Town of Gila Bend, State of Arizona, the County of Maricopa, the United  
6 States, and any other governmental entities having jurisdiction.

- 7 3. This authorization to construct the Project will expire ten (10) years from the date  
8 the Certificate is approved by the Commission unless the Project is completed and  
9 capable of operation within the ten-year time frame. If the Project is not  
10 complete and capable of operation within the ten-year time frame, the Applicant  
11 or its assignee(s), may request that the Commission extend this time limitation.

12 Status: Construction of the Gen – Tie is 100% complete. Starting date: Jan 04,  
13 2012. Completion Date: June 16, 2012.

- 14 4. In the event that the Project requires an extension of the term of this Certificate  
15 prior to completion of construction, Applicant, or its assignee(s), shall use  
16 commercially reasonable means to directly notify all landowners and residents  
17 within one mile of the Project corridor for which the extension is sought. Such  
18 landowners and residents shall be notified of the time and place of the  
19 proceeding in which the Commission shall consider such request for extension.

20 Status-Not applicable at this time. Construction of the Gen – Tie is 100%  
21 complete. Starting date: Jan 04, 2012. Completion Date: June 16, 2012.

- 22 5. The Applicant, or its assignee(s), shall document and make every reasonable  
23 effort to identify and correct, on a case-specific basis, all complaints of  
24 interference with radio or television signals from operation of the transmission  
25 lines and related facilities addressed in this Certificate. The Applicant, or its  
26 assignee(s), shall maintain written records for a period of five years of all

1 complaints of radio or television interference attributable to operation, together  
2 with the corrective action taken in response to each complaint. All complaints  
3 shall be recorded to include notations on the corrective action taken. Complaints  
4 not leading to a specific action or for which there was no resolution shall be  
5 noted and explained.

6 Status- The Applicant shall comply in the event any complaints of radio or  
7 television interference be reported.

- 8 6. To the extent applicable, Applicant, or its assignee(s), shall comply with the notice  
9 and salvage requirements of the Arizona Native Plant Law (A.R.S. §§ 3-901, *et*  
10 *seq.*) and will, to the extent feasible, minimize the destruction of native plants  
11 during Project construction.

12 Status- The Applicant complied with this condition by presenting a NOI of Clear  
13 Land to ADA on February 01, 2012. Approval was received in March 02, 2012.

- 14 7. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical  
15 site or object that is at least 50 years old is discovered on state, county or  
16 municipal land during Project-related activities, the person in charge shall  
17 promptly report the discovery to the Director of the Arizona State Museum, and  
18 in consultation with the Director, shall immediately take all reasonable steps to  
19 secure and maintain the preservation of the discovery. If human remains and/or  
20 funerary objects are encountered on private land during the course of any  
21 ground-disturbing activities relating to the development of the subject property,  
22 Applicant shall cease work on the affected area of the Project and notify the  
23 Director of the Arizona State Museum pursuant to A.R.S. § 41-865.

24 Status- During the construction period no archaeological, paleontological or  
25 historical site or object that is at least 50 years old was discovered on state,  
26 county or municipal land during Project-related activities.



1 8. Applicant, or its assignee(s), shall design the transmission lines to incorporate  
2 reasonable measures to minimize impacts to raptors.

3 Status- The Applicant complied with the condition by complying all conditions of  
4 the Special Purpose – Relocate permit from the ADA.

5 9. Applicant, or its assignee(s), shall use non-specular conductor and dulled surfaces  
6 for transmission line structures.

7 Status- The Applicant fully complied with this condition.

8 10. Before construction on this Project may commence, the Applicant, or its  
9 assignee(s), must file a construction mitigation and restoration plan ("Plan") with  
10 Commission Docket Control. Where practicable, the Plan will specify the  
11 Applicant's plans for construction access and methods to minimize impacts to  
12 wildlife, to minimize vegetation disturbance outside of the Project right-of-way,  
13 and to revegetate native areas following construction disturbance.

14 Status- The Applicant submitted the construction mitigation and restoration  
15 plan to the Commission Docket Control on July 22, 2011.

16 11. With respect to the Project, Applicant, or its assignee(s), shall participate in good  
17 faith in state and regional transmission study forums such as Southwest Area  
18 Transmission to coordinate transmission plans related to the Project.

19 Status- The Applicant employs representatives who participate in and/or are  
20 members of the Southwest Area Transmission group, the WIRES forum, and the  
21 WECC Regional Transmission Planning study/steering groups. Further, the  
22 Applicant retains a FERC attorney who represents the company in regional and  
23 national transmission planning groups and advises the company on matters  
24 related to FERC, NERC, and WECC activities.

25 12. Within 120 days of the Commission decision granting this Certificate, Applicant,  
26 or its assignee(s), will post signs in public rights-of-way giving notice of the

1 Project corridor to the extent authorized by law. The Applicant, or its assignee(s),  
2 shall place signs in prominent locations at reasonable intervals such that the  
3 public is notified along the full length of the transmission line until the  
4 transmission structures are constructed. To the extent practicable, within 45 days  
5 of securing easement or right-of-way for the Project, the Applicant, or its  
6 assignee(s), shall erect and maintain signs providing public notice that the  
7 property is the site of a future transmission line. Such signage shall be no smaller  
8 than a normal roadway sign. The signs shall advise:

- 9 (a) That the site has been approved for the construction of Project facilities;
- 10 (b) The expected date of completion of the Project facilities;
- 11 (c) A phone number for public information regarding the Project;
- 12 (d) The name of the Project;
- 13 (e) The name of the Applicant, or its assignee(s); and
- 14 (f) The website of the Applicant, or its assignee(s).

15 Status-On April 6, 2009 Arizona Solar One completed the action of posting signs  
16 within 120 days of the Commission decision. The action was then filed with the  
17 offices of Compliance Control and Docket Control on April 10, 2009. Once the  
18 right-of-way for the Project is secured, within 45 days, the Applicant shall comply by  
19 erecting and maintaining signs providing public notice of the future Solana  
20 Transmission Line. On February 10, 2011 Arizona Solar One completed the action of  
21 posting signs, along the full length of the transmission line, providing public notice  
22 that the property is the future site of the transmission line. Evidence of this action  
23 was then filed with the office of Arizona Corporation Commission Docket Control on  
24 February, 16, 2011.

25 13. The Applicant, or its assignee(s), shall provide copies of this Certificate to the  
26 Town of Gila Bend, the Maricopa County Planning and Development

1 Department, the Arizona State Land Department, the State Historic Preservation  
2 Office, and the Arizona Game and Fish Department.

3 Status- Arizona Solar One completed this action on November 13, 2009. This  
4 action was than filed with the offices of Compliance Control and Docket Control  
5 on November 19, 2009.

- 6 14. Within 120 days after the approval of this Certificate by the Commission,  
7 Applicant, or its assignee(s), will provide known homebuilders and developers  
8 within one mile of the center line of the Certificated route (i) a copy of this  
9 Certificate, (ii) a map showing the location of the Project, (iii) a pictorial depiction  
10 of the type of power line being constructed, and (iv) a written request that the  
11 developers and homebuilders include this information in the developers' and  
12 homebuilders' homeowners' disclosure statements.

13 Status-Arizona Solar one completed this action in conjunction with item thirteen  
14 (12), on April 6, 2009, providing the two know homebuliders and developers in  
15 the area with the required attachments. This action was than filed with the  
16 offices of Compliance control and Docket control on April 10, 2009.

- 17 15. Before commencing construction of Project facilities located parallel to and within  
18 100 feet of any existing natural gas or hazardous liquid pipeline, the Applicant, or  
19 its assignee(s), shall:

- 20 (a) Perform the appropriate grounding and cathodic protection studies to  
21 show that the Project's location parallel to and within 100 feet of such  
22 pipeline results in no material adverse impacts to the pipeline or to public  
23 safety when both the pipeline and the Project are in operation. If material  
24 adverse impacts are noted in the studies, Applicant, or its assignee(s), shall  
25 take appropriate steps to ensure that such material adverse impacts are  
26

mitigated. Applicant, or its assignee(s), shall provide to Commission Staff reports of studies performed; and

Status- The actions identified in (a), above, have been completed by Arizona Solar One and submitted to Arizona Corporation Commission Docket Control on November 17, 2011.

(b) Perform a technical study simulating an outage of the Project that may be caused by the collocation of the Project parallel to and within 100 feet of the existing natural gas or hazardous liquid pipeline. This study should either: i) show that such outage does not result in customer outages, or ii) include operating plans to minimize any resulting customer outages. Applicant, or its assignee(s), shall provide a copy of this study to Commission Staff.

Status- The actions identified in (b), above, have been completed by Arizona Solar One and submitted to Arizona Corporation Commission Docket Control on November 2, 2011.

16. Applicant, or its assignee(s), will follow the latest Western Electricity Coordinating Council/North American Electric Reliability Corporation planning standards as approved by the Federal Energy Regulatory Commission, and National Electrical Safety Code construction standards.

Status- The Applicant has incorporated WECC, NERC, and NESC standards in the design of the Solana Gen-tie. The Applicant submitted to WECC on August 03, 2012 the application to register "ASL Operations" as a Transmission Owner. The application is still under review. .

17. The Applicant, or its assignee(s), shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met. Each letter shall be



1 submitted to the Commission Docket Control on December 1, beginning in 2009.  
2 Attached to each certification letter shall be documentation explaining how  
3 compliance with each condition was achieved. Copies of each letter along with  
4 the corresponding documentation shall be submitted to the Arizona Attorney  
5 General and Department of Commerce Energy Office. The requirement for the  
6 self-certification shall expire on the date the Project is placed into operation.

7 Status- This Action was completed by the Applicant on Nov 29, 2012, and  
8 submitted to Docket Control, the Arizona Attorney General and Department of  
9 Commerce Energy Office.

10 **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

11 This Certificate incorporates the following findings of fact and conclusions of law:

- 12 1. The Project is in the public interest because it aids the state in meeting the need  
13 for an adequate, economical and reliable supply of electric power.
- 14 2. In balancing the need for the Project with its effect on the environment and  
15 ecology of the state, the conditions placed on the Certificate by the Committee  
16 effectively minimize its impact on the environment and ecology of the state.
- 17 3. The conditions placed on the Certificate by the Committee resolve matters  
18 concerning the need for the Project and its impact on the environment and  
19 ecology of the state raised during the course of proceedings, and as such, serve  
20 as the findings on the matters raised.
- 21 4. In light of these conditions, the balancing in the broad public interest results in  
22 favor of granting the Certificate.

23 THE ARIZONA POWER PLANT AND  
24 TRANSMISSION LINE SITING COMMITTEE  
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Hon. John Foreman, Chairman

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